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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,692	12/16/2003	Tetsushi Kawamura	246598US3	3554
22850	22850 7590 04/27/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			ELLINGTON, ALANDRA	
	RIA, VA 22314		ART UNIT	PAPER NUMBER
,			2855	
			DATE MAILED: 04/27/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/735,692	KAWAMURA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Alandra Ellington	2855			
The MAILING DATE of this communication app	I				
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on amer	ndment filed on 1/10/05.	·			
	action is non-final.				
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-7 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 16 December 2003 is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examine 11.	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)			

Non-Final Rejection

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baba et al (hereinafter Baba) (6,813,953) in view of Polak et al (hereinafter Polak) (5,689,089).
 - a. With respect to Claim 1, Baba discloses a pressure sensor with a semiconductor device capable of detecting pressure, a bonding wire 40, a terminal 10a that is connected to the semiconductor device 20 by the bonding wire 40, a housing 10,11,12,13 having an accommodation space accommodating the semiconductor device 20, the bonding wire 40 and the terminal 10a, a diaphragm 81 sealing the accommodation space and transmits pressure applied to the diaphragm 81 to the semiconductor device 20, wherein the working fluid 70 is a silicone-based oil, the terminal 10a sealed with by a sealing material 50, and the housing 12 sealed by a fluorine-based adhesive 100 (col. 3 lines 57-67, col. 4 lines 36-40, col. 5 lines 2-7,19-44 {Fig. 1}). However, Baba does not specifically teach a terminal sealed by a fluorine-based adhesive. Polak teaches a terminal 30 and housing 17 sealed by a fluorine-based adhesive 34 (col. 4 lines 16-41 {Figs. 1A,1B}). It would have been obvious to one having ordinary skill in the art

Application/Control Number: 10/735,692

Art Unit: 2855

at the time the invention was made to modify Baba with the teachings of Polak to include a terminal sealed by a fluorine-based adhesive for the purpose of protecting electronic devices while operating in corrosive environments (see Polak, col. 2 lines 2-4, col. 3 lines 5-33, col. 4 lines 16-41 {Figs. 1A,1B}).

Page 3

- With respect to Claim 2, Baba discloses a pressure sensor with a semiconductor device capable of detecting pressure, a bonding wire 40, a terminal 10a that is connected the semiconductor device 20 by the bonding wire 40, and a housing 12, having an accommodation space accommodating the semiconductor device 20, the bonding wire 40 and the terminal 10a, wherein the terminal 10a sealed with by a sealing material 50, and the housing sealed by a fluorine-based adhesive 100 (col. 3 lines 57-67, col. 4 lines 36-40, col. 5 lines 2-7,19-44 (Fig. 1)). However, Baba does not specifically teach a terminal sealed by a fluorine-based adhesive. Polak teaches a terminal 30 and housing 17 sealed by a fluorine-based adhesive 34 (col. 4 lines 16-41 {Figs. 1A,1B}). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Baba with the teachings of Polak to include a terminal sealed by a fluorine-based adhesive for the purpose of protecting electronic devices while operating in corrosive environments (see Polak, col. 2 lines 2-4, col. 3 lines 5-33, col. 4 lines 16-41 (Figs. 1A,1B)).
- c. With respect to Claims 3 and 4, Baba discloses a pressure sensor with a semiconductor device capable of detecting pressure, a bonding wire 40, a terminal 10a that is connected to the semiconductor device 20 by the bonding

Art Unit: 2855

wire 40, a housing 12 having an accommodation space accommodating the semiconductor device 20, the bonding wire 40 and the terminal 10a, a diaphragm 81 sealing the accommodation space and transmits pressure applied to the diaphragm 81 to the semiconductor device 20, wherein the working fluid 70 is a silicone-based oil, the terminal 10a sealed with by a sealing material 50, and the housing sealed by a fluorine-based adhesive 100 (col. 3 lines 57-67, col. 4 lines 36-40, col. 5 lines 2-7,19-44 {Fig. 1}). Polak teaches a terminal 30 and housing 17 sealed by a fluorine-based adhesive 34 (col. 4 lines 16-41 {Figs. 1A,1B}). However, Baba in view of Polak does not specifically teach a perfluoro polyether resin composition. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Baba in view of Polak to include a perfluoro polyether resin composition for the purpose of protecting electronic devices while operating in corrosive environments (see Polak, col. 2 lines 2-4, col. 3 lines 5-33, col. 4 lines 16-41 {Figs. 1A,1B}). MPEP 2144.06.

- d. With respect to Claim 5, Polak teaches a fluid-tight pressure seal that does not include a working fluid (col. 2 lines 50-57 {Figs. 1A,1B}).
- e. With respect to Claim 6, Baba discloses a method of making a pressure sensor with a semiconductor device capable of detecting pressure, a bonding wire 40, a terminal 10a that is connected to the semiconductor device 20 by the bonding wire 40, a housing 10,11,12,13 having an accommodation space accommodating the semiconductor device 20, the bonding wire 40 and the terminal 10a, a diaphragm 81 sealing the accommodation space and transmits

Application/Control Number: 10/735,692 Page 5

Art Unit: 2855

pressure applied to the diaphragm 81 to the semiconductor device 20, wherein the working fluid 70 is a silicone-based oil, the terminal 10a sealed with by a sealing material 50, and the housing 12 sealed by a fluorine-based adhesive 100 (col. 3 lines 57-67, col. 4 lines 36-40, col. 5 lines 2-7,19-44 {Fig. 1}). However, Baba does not specifically teach a terminal sealed by a fluorine-based adhesive. Polak teaches a terminal 30 and housing 17 sealed by a fluorine-based adhesive 34 (col. 4 lines 16-41 {Figs. 1A,1B}).

f. With respect to Claim 7, Baba discloses a method of making a pressure sensor with a semiconductor device capable of detecting pressure, a bonding wire 40, a terminal 10a that is connected the semiconductor device 20 by the bonding wire 40, and a housing 12, having an accommodation space accommodating the semiconductor device 20, the bonding wire 40 and the terminal 10a, wherein the terminal 10a sealed with by a sealing material 50, and the housing sealed by a fluorine-based adhesive 100 (col. 3 lines 57-67, col. 4 lines 36-40, col. 5 lines 2-7,19-44 (Fig. 1)). However, Baba does not specifically teach a terminal sealed by a fluorine-based adhesive. Polak teaches a terminal 30 and housing 17 sealed by a fluorine-based adhesive 34 (col. 4 lines 16-41 (Figs. 1A,1B)).

Response to Arguments

3. Applicant's arguments with respect to claims 1-7 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Application/Control Number: 10/735,692 Page 6

Art Unit: 2855

872-9306.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

(JP 2001099737 A) (4,342,231) (US 2001/0028072)

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alandra Ellington whose telephone number is (571) 272-

2178. The examiner can normally be reached on Monday - Friday, 7:30am - 4:00pm.

6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571) 272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Alandra Ellington Art Unit 2855

Business Center (EBC) at 866-217-9197 (toll-free).

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MAX NOORI PRIMARY EXAMINER